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## EDUCATION

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### COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK | *School of Engineering & Applied Science*

New York, NY

#### *Master of Science in Data Science*

Sept 2016 – Dec 2017

- *Academics:* GPA 3.83
- *Honors:* Toyota Motor Corporation Scholarship (*Fall 2016*)
- *Capstone Project:* “Quantifying the Demand for Foreign Labor Across Industries” (*in collaboration with Goldman Sachs*)
- *Relevant Coursework:* Algorithms, Computer Systems, Machine Learning, Neural Networks & Deep Learning, Natural Language Processing (NLP), Quantitative Corporate Finance, Statistical Inference & Modeling

### UNIVERSITY OF CALIFORNIA, LOS ANGELES | *College of Letters & Science*

Los Angeles, CA

#### *Bachelor of Arts in Business Economics with a Minor in Accounting*

Sept 2012 – Dec 2014

- *Academics:* GPA 3.93 (*summa cum laude*)
- *Honors:* College Honors, Dean’s Honors List (*6 Quarters*), National Society of Collegiate Scholars, Alpha Lambda Delta (ΑΛΔ) & Phi Eta Sigma (ΦΗΣ) National Honor Societies, First-Generation College Student
- *Relevant Coursework:* Econometrics, Auditing (GAAS), Business Law (US), Corporate & Partnership Taxation (US), Financial Accounting (US GAAP), Management Accounting, Financial Statement Analysis & Valuation, Investments

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## EXPERIENCE

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### VIACOM | *Department of Data Strategy & Consumer Intelligence*

New York, NY

#### *Data Scientist Intern, Movie Analytics*

May 2017 – Present

- Modeled box office seasonality through Bayesian Inference and ranked movie studios using Markov chains
- Estimated growth and decay time constants of user engagement on sponsored content to optimize marketing spend
- Consolidated existing data sources into an automated data collection system and extended functionality through REST APIs

### STREAM GLOBAL | *Noggin Design & User Experience Team*

Singapore

#### *Product Manager Intern*

Sept 2015 – Dec 2015

- Designed analytics tools to engage users in monetizing their data on the Noggin Personal Data Exchange
- Researched API specifications and UI enhancements for integration into the Noggin PodSense and PodKet apps
- Conducted competitive analyses of enterprises and initiatives in the space of personal data privacy and security

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## PORTFOLIO

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### MOVIENET *in collaboration with Paramount Pictures*

New York, NY

#### *Optimizing Movie Attributes and Theatrical Releases for Maximizing Box Office Revenues*

Fall 2017 – Present

- Quantified the individual effects of movie attributes, competition, seasonality, and time on market share
- Developed an ensemble of vector regression models using gradient boosting machines and deep neural networks
- Synthesized a schedule of 100 million observations through web scraping, feature engineering, and random sampling



### PREDICTIVE TEXT GENERATION APP *in collaboration with SwiftKey*

Johor Bahru, Malaysia

#### *Smart Prediction Technology for Easier Mobile Typing*

Fall 2015

- Generated real-time predictions for the next word in a sequence through an interactive web application
- Implemented a backoff model that computes conditional probabilities of words using maximum likelihood estimation
- Compiled a database of 4 million N-grams that supports 4<sup>th</sup>-order Markov models through tokenizing a text corpus



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## ADDITIONAL

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*Technical Skills:* AWS/GCP, Python (*scikit-learn*, *Keras*, *TensorFlow*), R (*tidyverse*, *Google Visualization API*, *Shiny*), SQL, Tableau

*Certifications:* Deep Learning Specialization (*by deeplearning.ai*), Data Science Specialization (*by Johns Hopkins University*)

*Languages:* English (*Native*), Malay (*Fluent*), Mandarin Chinese (*Conversant*), French (*Basic*)

*Service:* International House of New York (*Resident Member*), One Heart Source (*Cape Town, South Africa*)

*Interests:* Artificial Intelligence, Behavioral Economics, Cryptocurrencies, Film Journalism, Foreign Languages

